# DATA SHEET



#### Numerical control

# VisiTouch Pac MX

VisiTouch Pac is an outstanding numerical control for press brakes with a new solution all-in-one:

- Semi-compact control with a 19" modern streamlined glass surface full touch-screen and the CNC board mounted on the back of the screen.
- Full digital up to 24+2 electric axes with two CANopen® and one EtherCAT® field buses with wide configuration capabilities.
- Interface to all kind of hydraulic systems, I/O and analogue axes thanks to the CybMVA modules placed inside the electrical cabinet.





VisiTouch Pac numerical controls are available in two versions:

- VisiTouch Pac with 2D graphical profile drawing (Touch Profile) and 3D visualization
- VisiTouch Pac MX with import, program, visualization and simulation, all in 3D.

In addition to all the features available to control simple as well most sophisticated press brakes, hydraulic, electrical and hybrid, VisiTouch Pac offers also an open system allowing customization to be up to the Industry's 4.0 production management requirements.

#### Main features

#### For the User

Modern streamlined glass surface touch screen that can be used with gloves.

User-friendly HMI thanks to intuitive programming.

All kinematics available:

- For X, Xrelatives, Xslave, R, Rslave, and Z axes.
- For Back and Front multiples gauges.
- For bending aids.

Highest precision of bending thanks to sophisticated algorythms.

Tandem.

Tools import.

Group management for complex production.

Preliminary / Final bend.

Hemming management.

Running under Windows 10 for multitasking and networking.

Angle measurement.

Barcode reader.

Customizable Industry 4.0.

#### For the OEM:

Set up with dedicated wizards (auto-tuning).

Axis control through CANopen® and EtherCAT® with wide configuration capabilities.

Customizable User Buttons for the machine operator.

Open system for customization.

Interactions with the beam through specific cycles to manage hybrid and electric press brakes.

Dynamic and regulated crowning cycles.

Plug-in for HMI part.

Communication protocol with arm robots for press brakes applications.

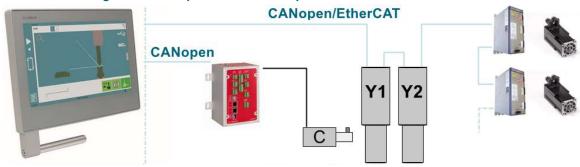
Display	
TFT screen	18.5" wide TFT 16:9
Resolution	1366 x 768, 24 bits (WXGA)
Touch screen	Glass PCAP Multi-touch 10 fingers
Seal	IP65 - front side only
Handle	Included
Operating conditions	Min. 5° Celsius, max. 40° Celsius. If the ambient temperature approaches or exceeds 40° Celsius, it is advisable to install special ventilation, or even air-conditioning.  Relative humidity (10 to 85% non-condensing).
EC Directives	IEC 61131-2

		C	NC board 2D	CNC board 3D (MX)
Operating System		Windows 10		
Processor Unit	Model Graphic RAM Cooling	@1.6GHz Intel® HD Gr 4 GB DDR RA	· ·	Intel Atom x7-E3950 Quad core @1.6GHz Intel Gen 9LP Graphics 8 GB DDR RAM Passive Heat sink, FAN less
Mass Storage	Capacity		T memory card SATA	Tubbive Float Silik, 17 (14 1655
Display Interface		DVI LVDS	Up to 1920x1600, single-link DVI-D interface Up to 1920x1200, dual channel LVDS mode 18bpp or 24bpp	
Communication		LAN USB COM Wi-Fi 4G-5G	1x Gigabit Ethernet, RJ-4 4x USB (1x USB 3.1, 3x U 1x USB 2.0 (dedicated to 1x RS-232C/RS-485 (D-s USB compatible USB compatible	JSB 2.0)
Operating temperature		0 - 40°C	•	
Power Supply (Numerica	l Control)	+24V <sub>dc</sub>	@0.8A typ.(CN without	I/O – X1 connector)
Power Supply (Digital I/O	s)	+24Vdc @ 2	0A max.	
RTC – Calendar Clock		Battery	Lithium CR2032 / 3V @2	225mA/h
I/O Processor		ARM Cortex	M7 series – STM32F765	@216MHz
Digital Input		6	4mA typ. according to I Isolation 2kV Filtering – debouncing a	EC61131-2 type 1 & 3 and deglitching (by step of 250µs)
Digital Output		4	Isolation 2kV Overvoltage and Short	cording to IEC61131-2 type 3 circuit protection and no 24V IO power supply
Fieldbus Interface		2 CANopen 1 EtherCAT		5, CANopen Master/Slave

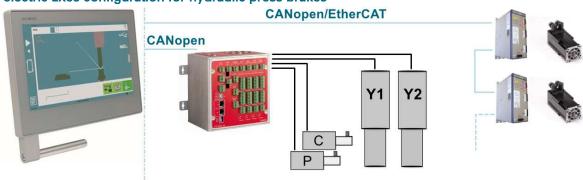
Extras	
CANopen Compatible Drives	Baumüller, Delta Electronics, Infranor, INVT, Schneider, etc.
Ethercat Compatible Drives	Delta Electronics, Infranor, Kollmorgen Europe Gmbh, OMRON, Panasonic, Yaskawa Electric, SanyoDenki Co., etc.
Safety Systems Compatibilities	Fiessler, LazerSafe, Nuova Elettronica, Pilz, etc.
Angle Measurement Systems	Protractors: IBR, Mitutoyo DMX, Mitutoyo U-wave Real time Systems: DataM LaserCheck, Lazer Safe IRIS+, Wenglor, etc.
Angle Measurement Systems  Tool Locators	Protractors: IBR, Mitutoyo DMX, Mitutoyo U-wave Real time Systems: DataM LaserCheck, Lazer Safe IRIS+, Wenglor, etc. WILA Smart Toll Locator, PB Service, etc.

# Typical machine configurations – VisiTouch Pac controls and CybMVA modules

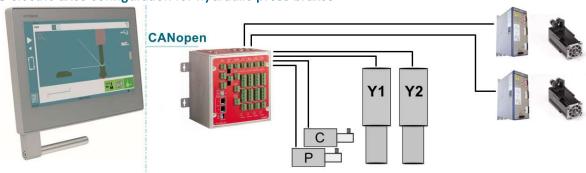
# FULL DIGITAL axes configuration for hybrid and electric press brakes



#### DIGITAL electric axes configuration for hydraulic press brakes

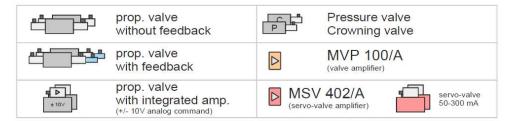


#### ANALOG electric axes configuration for hydraulic press brakes

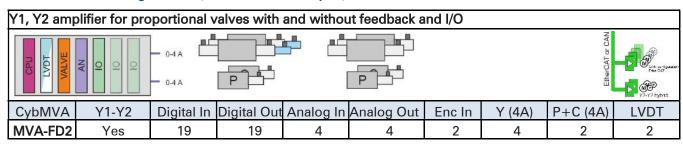


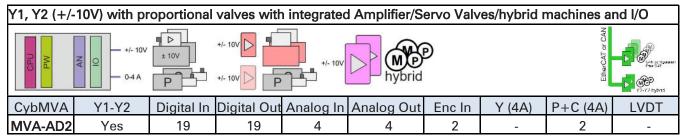
#### CybMVA modules configurations

For detailed technical characteristic, please refer to the CybMVA datasheet. For machines with more than 4 axes, any additional electric axes on the CybMVA modules require an additional axis license on the VisiTouch Pac.

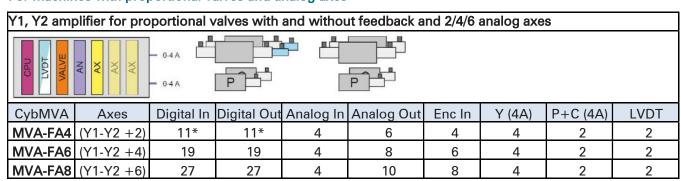


#### For machines with digital axes (EtherCAT or CANopen)

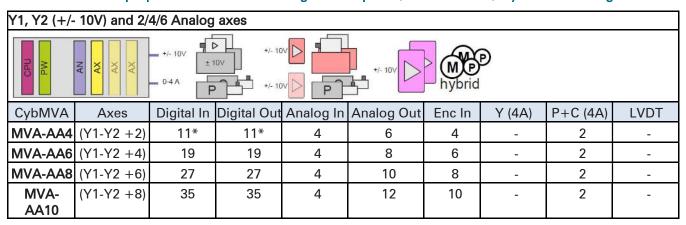




#### For machines with proportional valves and analog axes

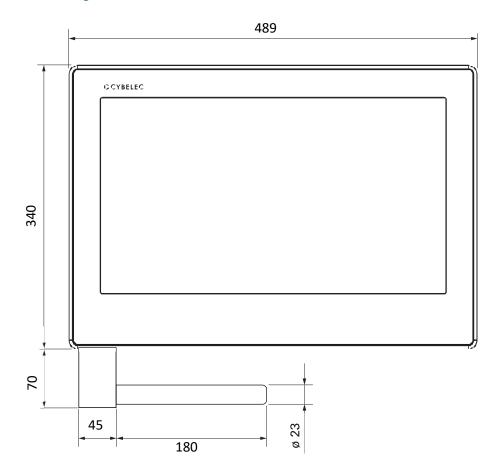


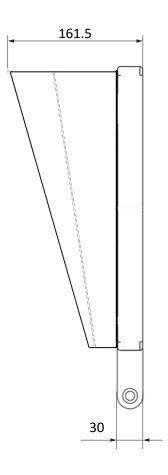
#### For machines with proportional valves with integrated amplifier / Servo-Valves / Hybrid and analog axes



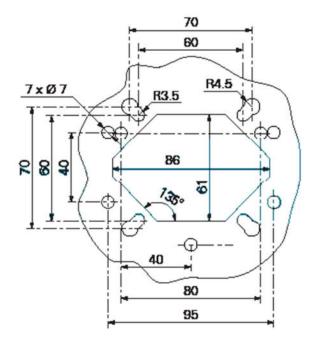
#### **Dimensions**

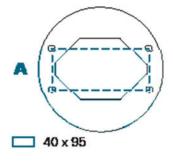
### **Housing Version**

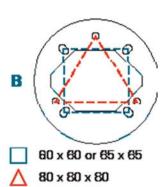




#### **Attachment dimensions**



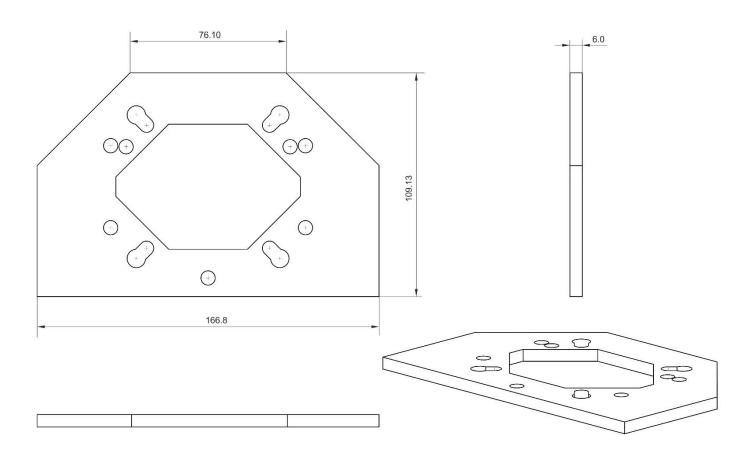




Two adapters are provided.

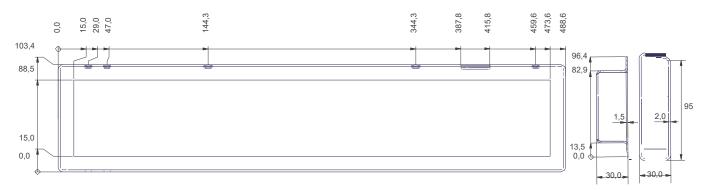
Stick the appropriate one on top of the box.

# ALU spacer for VT and VP fixing dimensions



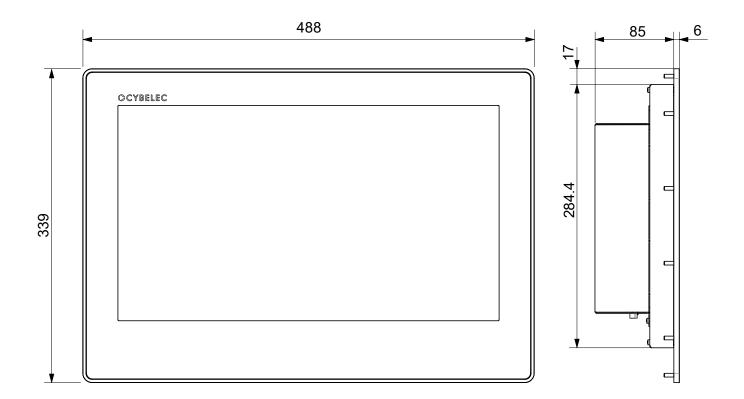
# **Dimensions**

# **Auxiliary box**

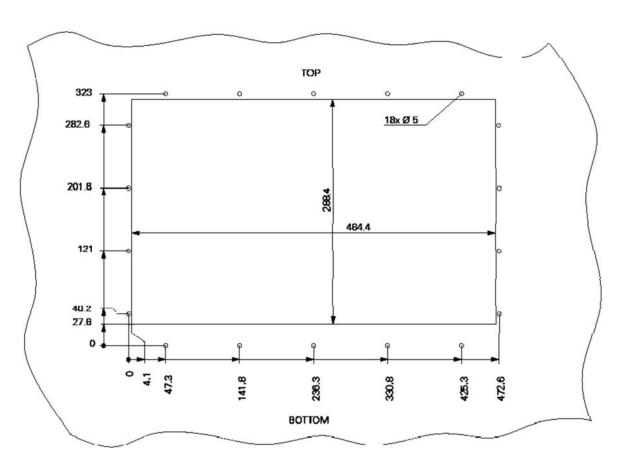


# **Dimensions**

#### **Panel version**



# Integrating opening dimensions



# **Ordering information**

#### VisiPac controls

VSP-84PS-2	VisiTouch Pac, 4 axes (Y1, Y2, 2 axes), PS-2D
VSP-84PS-2	VisiTouch Pac, 4 axes (Y1, Y2, 2 axes), PS-2D, panel version
VSP-84PS-MX	VisiTouch Pac MX, 4 axes (Y1, Y2, 2 axes), PS-3D
VSP-84PS-MX/P	VisiTouch Pac MX, 4 axes (Y1, Y2, 2 axes), PS-3D, panel version
VSP-84PS-MXIMP	VisiTouch Pac MX, 4 axes (Y1, Y2, 2 axes), PS-3D and import
VSP-84PS-MXIMP/P	VisiTouch Pac MX, 4 axes (Y1, Y2, 2 axes), PS-3D and import, panel
	All controls with RJ45 wire 7.5m (SFTP CAT 5E) included
	The software is configurable with below options
	Accessories
S-OPT-BTAUX-S/E	Auxiliary box
UPS-DP1	UPS system with battery, 24V DC, 3A
M-300-0013B	ALU spacer for VT and VP fixing

#### Software options

OFT-AX	Additional axis license
OFT-TM	Tandem management
OFT-BA	Bending aids and sheet support (require axes licenses)
OFT-SS	Sheet support (require axes licenses)
OFT-AM1	Automatic angle measurement (one station)
OFT-AM2	Automatic angle measurement (two stations)
Included	Protractor Angle
OFT-AT	Automatic thickness measurement
OFT-FS	Force sensor management
OFT-SC	Special crowning cycle (user cycle file added by customer)
OFT-TL	Tool locator
OFT-SB	Plugin for communication with Lazer Safe Smart Brackets
OFT-RCG	Plugin for comm. with arm robot (incl. OFT-BA and OFT-SS)
OFT-RCA	Robot control, Cartesian XYZAC (includes 5 axes licenses)
OFT-RAS	STEP Arm Robots control interface

OFT-BC	Plugin for communication with Barcode reader, generic
OFT-ST	Statistics
OFT-I4M	Industry 4.0, statistics, status (MES), communication (MES)
OFT-VA	AutoPOL CAM Viewer
OFT-PG	Authorization for plugin installed by customer
OFT-IMP	MX Import license, DXF flat, SW, IGES, STEP, SAT, X_T

#### PC offline software

OFT-VST-2	PC offline software VisiTouch (2D)
OFT-VST-MX	PC offline software VisiTouch MX
OFT-VST-MXIMP	PC offline software VisiTouch MX including Import
OFT-IMP-SLDPRT	SolidWorks import license, requires OFT-IMP license
OFT-EXP	DXF export license

